

**HYBRID VEHICLE TURBINE ENGINE  
REQUIREMENTS  
MAIN TECHNICAL BARRIERS  
R&D NEEDS**

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**AUTOMOTIVE TECHNOLOGY DEVELOPMENT  
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**Abstract**

The gas turbine has been selected as a power plant which could help meet the needs of PNGV Goal 3. As in many other areas, the technology to meet the goal is not in hand, and the PNGV organization has formed Technical Teams to ascertain the technical challenges and help formulate the R&D path to follow in order to address and answer the questions. In this presentation the Gas Turbine Technical Team suggests the reasons for considering this power plant, sets targets which it will need to meet to satisfy the PNGV Goal, assesses the current state of the art, and suggests the challenges which the program will have to fulfill. The gas turbine is attractive for this program, but there are numerous gaps which must be filled.